

**Summary Statistics of  
Reported and Verified Cases of Tuberculosis in  
San Joaquin County (SJC) in 2013, (N=43)  
County Rate = 6.1 Cases per 100,000 Population**

**I. Demographic Information**

**Table I-A: TB cases by gender, SJC, 2013 (N=43)**

GENDER	NUMBER OF CASES	PERCENT OF CASES
Male	26	60.5%
Female	17	39.5%

**Table I-B: TB cases by age group at time of diagnosis, SJC, 2013 (N=43)**

AGE GROUP	NUMBER OF CASES	PERCENT OF CASES
0-4	4	9.3%
5-14	1	2.3%
15-24	5	11.6%
25-44	7	16.3%
45-64	6	14.0%
65+	20	46.5%

**Table I-C: TB cases by city of residence at time of diagnosis, SJC, 2013 (N=43)**

CITY OF RESIDENCE	NUMBER OF CASES	PERCENT OF CASES	RATE PER 100,000 POPULATION <sup>1</sup>
Stockton	34	79.1%	11.5
Lodi	3	7.0%	4.8
Tracy	3	7.0%	3.6
Manteca	1	2.3%	1.4
Other San Joaquin County cities	2	4.7%	NA <sup>2</sup>

<sup>1</sup> Population denominator source: State of California, Department of Finance, *E-1 Population Estimates for Cities, Counties and the State with Annual Percent Change — January 1, 2012 and 2013, Sacramento, California, May 2013*

<sup>2</sup> Population denominators not available for some San Joaquin County cities

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**Table I-D: TB cases by select race/ethnicity, SJC, 2013 (N=43)**

RACE/ETHNICITY	NUMBER OF CASES	PERCENT OF CASES	RATE PER 100,000 POPULATION <sup>1</sup>
<b>Hispanic</b>	<b>10</b>	<b>23.3%</b>	<b>3.6</b>
<b>Asian/P.I.</b>	<b>28</b>	<b>65.1%</b>	<b>28.1</b>
Cambodian	14	32.6%	NA <sup>2</sup>
Filipino	8	18.6%	NA <sup>2</sup>
Hmong	3	7.0%	NA <sup>2</sup>
Indian	1	2.3%	NA <sup>2</sup>
Korean	1	2.3%	NA <sup>2</sup>
Pakistani	1	2.3%	NA <sup>2</sup>
<b>White</b>	<b>4</b>	<b>9.3%</b>	<b>1.6</b>
<b>Multi-Race</b>	<b>1</b>	<b>2.3%</b>	<b>4.5</b>
<b>A.I./A.N.</b>	<b>0</b>	<b>0.0%</b>	<b>0.0</b>
<b>Black</b>	<b>0</b>	<b>0.0%</b>	<b>0.0</b>

<sup>1</sup>Population denominator source: State of California, Department of Finance, *P-3 Population Projections by Race/Ethnicity and Detailed Age 2010 through 2060 (as of July 1), Sacramento, California, April 2014*

<sup>2</sup>2013 Population denominators not available for Asian/Pacific Islander subpopulations

**Table I-E: TB cases by country of origin, SJC, 2013 (N=43)**

COUNTRY OF ORIGIN	NUMBER OF CASES	PERCENT OF CASES
<b>U.S. Born</b>	<b>16</b>	<b>37.2%</b>
<b>Foreign Born</b>	<b>27</b>	<b>62.8%</b>
Cambodia	8	18.6%
Philippines	8	18.6%
Mexico	6	14.0%
Laos	2	4.7%
India	1	2.3%
Korea	1	2.3%
Thailand	1	2.3%

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**II. Clinical Profile of Reported Cases**

**Table II-A: TB cases by diagnosis category, SJC, 2013 (N=43)**

TB DIAGNOSIS	NUMBER OF CASES	PERCENT OF CASES
<b>Previous Diagnosis of Tuberculosis</b>	<b>2</b>	<b>4.7%</b>
<b>Vital Status – Deceased at Time of Diagnosis</b>	<b>3</b>	<b>7.0%</b>
<b>Site of Disease – Pulmonary Only</b>	<b>31</b>	<b>72.1%</b>
<b>Site of Disease – Extrapulmonary Only<sup>1</sup></b>	<b>6</b>	<b>14.0%</b>
Pleural	3	7.0%
Cervical	2	4.7%
Lymphatic, other	2	4.7%
Axillary	1	2.3%
Intrathoracic	1	2.3%
Other	1	2.3%
<b>Site of Disease – Both Pulmonary and Extrapulmonary<sup>1</sup></b>	<b>6</b>	<b>14.0%</b>
Pulmonary & Lymphatic	2	4.7%
Miliary	2	4.7%
Pulmonary & Axillary	1	2.3%
Pulmonary & Meningeal	1	2.3%
Pulmonary & Other	1	2.3%

<sup>1</sup>Extrapulmonary subcategories are not mutually exclusive

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**Table II-B: TB cases by select clinical factors, SJC, 2013 (N=43)**

CLINICAL FACTOR	NUMBER OF CASES/ DENOMINATOR <sup>1</sup>	PERCENT OF CASES
<b>Tuberculin Skin Test Performed</b>	<b>27</b>	<b>62.8%</b>
Tuberculin Skin Test – Positive PPD	22/27	81.5%
<b>Interferon Gamma Release Assay (IGRA) Test Performed</b>	<b>15</b>	<b>34.9%</b>
IGRA – Positive	14/15	93.3%
<b>Sputum Smear Test Performed</b>	<b>34</b>	<b>79.1%</b>
Sputum Smear – Positive AFB	10/34	29.4%
<b>Sputum Culture Test Performed</b>	<b>34</b>	<b>79.1%</b>
Sputum Culture - Positive	24/34	70.6%
<b>Other Culture Test Performed</b>	<b>25</b>	<b>58.1%</b>
Other pulmonary site of disease culture – positive <sup>2</sup>	11/25	44.0%
Non-pulmonary site of disease culture- positive <sup>3</sup>	9/25	36.0%

<sup>1</sup>Unless otherwise displayed, denominator is total number of cases (i.e., 43)

<sup>2</sup>Includes cultures from the following anatomic sites: 8 (18.6%) bronchial fluid, 2 (4.7%) gastric aspirate, and 1 (2.3%) upper respiratory or tracheal fluid

<sup>3</sup>Includes cultures from the following anatomic sites: 4 (9.3%) lymph node, 2 (4.7%) pleura, 1 (2.3%) pleural fluid, 1 (2.3%) cerebrospinal fluid and 1 (2.3%) soft tissue

Note: The tuberculin skin test and IGRA were both conducted in 9 (20.9%) cases, and neither was done in 8 (18.6%) cases. Both the sputum smear and the sputum culture tests were not done in 9 (20.9%) cases.

**Table II-C: TB cases by x-ray results, SJC, 2013 (N=43)**

CLINICAL FACTOR	NUMBER OF CASES/ DENOMINATOR <sup>1</sup>	PERCENT OF CASES
<b>Chest X-Ray Performed</b>	<b>41</b>	<b>95.3%</b>
Chest X-Ray - Normal	4/41	9.8%
Chest X-Ray - Abnormal	37/41	90.2%
<i>Cavitary</i>	<i>9/37</i>	<i>24.3%</i>
<i>Non-cavitary</i>	<i>28/37</i>	<i>75.7%</i>

<sup>1</sup>Unless otherwise displayed, denominator is total number of cases (i.e., 43)

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**III. Associated Risk Factors at the Time of Diagnosis**

**Table III-A: TB cases by select risk factors, SJC, 2013 (N=43)**

RISK FACTOR	NUMBER OF CASES	PERCENT OF CASES
Homelessness	2	4.7%
Imprisonment	1	2.3%
Long-term Care Institutionalization	0	0.0%
Injection Drug Use within Past Year	1	2.3%
Non-injection Drug Use within Past Year	2	4.7%
Excess Alcohol Use within Past Year	9	20.9%
AIDS Diagnosis	1	2.3%
Diabetes Mellitus Diagnosis	18	41.9%

**IV. Anti-Tuberculosis Drug Susceptibility Profile**

**Table IV-A: Drug susceptibility results (N=43)**

MEDICATION	NUMBER OF CASES/ DENOMINATOR	PERCENT OF CASES
<b>First Line Drugs – Tests Performed<sup>1</sup></b>	<b>38</b>	<b>88.4%</b>
Sensitive to all first line drugs	32/38	84.2%
Resistant to at least one first line drug	6/38	15.8%
Isoniazid (INH) – Resistant	4/38	10.5%
Rifampin (RIF) – Resistant	1/38	2.6%
Pyrazinamide (PZA) – Resistant	3/38	7.9%
Ethambutol (EMB) – Resistant	1/38	2.6%
Multi-Drug Resistant (MDR) <sup>2</sup>	0/38	0.0%
Extensively-Drug Resistant (XDR) <sup>3</sup>	1/38	2.6%

<sup>1</sup>Unless otherwise displayed, denominator is total number of cases (i.e., 43)

<sup>1</sup>Susceptibility testing was performed for 18 cases with positive sputum culture only, 14 with positive culture of other body tissue or fluid only, and 6 cases with both positive sputum culture and positive culture of other body tissue or fluid. Testing was not performed for 3 clinical cases, 1 provider-diagnosed case and 1 rapid-detection (pyrosequencing) positive case without culture confirmation.

<sup>2</sup>MDR is defined as resistance to at least INH and RIF; count excludes XDR cases

<sup>3</sup>XDR is defined as resistance to at least INH, RIF, one fluoroquinolone, and one of three second-line injectables (i.e., amikacin, capreomycin, kanamycin)